

BY-PASS VALVE UNIT FOR A HIGH PRESSURE LIQUID DELIVERY UNIT

ABSTRACT OF THE INVENTION

5 The unit of the invention comprises a motor-driven high pressure pump (11) having a delivery side (13) and a suction side (14), and a delivery gun (15) connected to the pump delivery side (13) by a delivery conduit (16) having a flow on-off valve. The valve unit comprises a by-pass valve (25, 33) arranged to close or alternatively, when in the open state, to enable
10 direct flow passage between the delivery side (13) and the suction side (14), and having a control means (31, 32) sensitive to the liquid pressure in the delivery conduit (16); said control means comprises two valving elements (31, 32) which are normally joined together to form one piece in contact with the liquid of the delivery conduit (16), but which separate
15 when the pressure in the delivery conduit (16) exceeds the normal delivery value (P_1) following flow interruption by the delivery gun (15), to hence provide direct passage for the liquid from the delivery conduit (16) to the suction side (14).